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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,573	11/18/2002	Heinz Leiber	LEN-021020	4836
7590 02/13/2004		EXAMINER MUIR, DAVID N		
Jody L Factor 1327 W Washington Blvd Suite 5G/H				
Chicago, IL 60607			ART UNIT	PAPER NUMBER
			3751	
			DATE MAILED: 02/13/2004	
				/

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/088,5	573	LEIBER ET AL.				
		Examine	er	Art Unit				
		D. Neal		3751				
Period fo	The MAILING DATE of this communic or Reply	cation appears on th	e cover sheet with the	correspondence address				
THE I - Exte after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FC MAILING DATE OF THIS COMMUNIC msions of time may be available under the provisions o SIX (6) MONTHS from the mailing date of this commu e period for reply specified above is less than thirty (30) b period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION.  f 37 CFR 1.136(a). In no e inication.  ) days, a reply within the sta utory period will apply and v ill, by statute, cause the ap	vent, however, may a reply be ti atutory minimum of thirty (30) da will expire SIX (6) MONTHS from plication to become ABANDONE	mely filed ys will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed	l on <u>18 November :</u>	<u> 2002</u> .					
2a) <u></u> □	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
•	Claim(s) 1-9 is/are pending in the app							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· _	Claim(s) 1-9 is/are rejected.							
-	Claim(s) is/are objected to. Claim(s) are subject to restricti	ion and/or election	requirement					
,—-	.,	ion ana/or orodion	roquironnona.					
	ion Papers							
,	The specification is objected to by the		4d b\\\\\\\\\\	ted to but be Evenine				
10)[2]	The drawing(s) filed on <u>01 November</u>							
	Applicant may not request that any object Replacement drawing sheet(s) including t							
11)	The oath or declaration is objected to	· ·	=					
•	under 35 U.S.C. §§ 119 and 120	<b>-,</b>						
-	Acknowledgment is made of a claim f	for foreign priority u	nder 35 U.S.C. & 119(:	a)-(d) or (f)				
* 5 13)	All b) Some * c) None of:  1. Certified copies of the priority of the certified copies of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation of the attached detailed Office action acknowledgment is made of a claim for ince a specific reference was included of the translation of the foreign language.  Acknowledgment is made of a claim for the certified copies of the translation of the foreign language.	locuments have be locuments have be f the priority documental Bureau (PCT Rufor a list of the cer domestic priority uin the first sentence guage provisional ar domestic priority uin the street priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage provisional ar domestic priority uin the first sentence guage guage provisional ar domestic priority uin the first sentence guage g	en received. en received in Applicat ents have been receiv ile 17.2(a)). tified copies not receiv under 35 U.S.C. § 119( e of the specification o pplication has been rec under 35 U.S.C. §§ 120	ion No  ed in this National Stage  ed.  e) (to a provisional application)  r in an Application Data Sheet.  ceived.  and/or 121 since a specific	)			
10			>   <b>        </b>					
Attachmen								
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449) Pap			(PTO-413) Paper No(s) Patent Application (PTO-152)				

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42 mg - 4

### **DETAILED ACTION**

#### Amendment

Pre-examination amendment "A" has been received and made of record as paper number 8. It should be noted that this amendment fails to comply with the requirement of a clean copy of the claims.

# **Drawings**

The drawings are objected to because figure 2 lacks numbering 13a while 18a lacks discussion in the specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

# Specification

#### Abstract

The abstract of the disclosure is objected to because it is not on a separate page, uses the legalistic term "said" in line 2, "the latter" of line 3 implies self activation, "two spring forces" of line 4 imply two springs not the torsion bar disclosed, line 6 "configures should be –configured--, and "electromagnet" should be plural. Correction is required. See MPEP § 608.01(b).

# **Specification**

The disclosure is objected to because of the following informalities: Page 5, line 21, armature 12 should be armature 13, 12 already established as the opening electromagnet, and element 18a lacks discussion. Claim 1, line 16 after "arranged" – opposite—must be entered to more precisely locate the armature center.

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alange a la

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 states "veter" in line 11 and fails to define this term in the specification as this is not a term with accepted definition in the art.

Claims 2 and 3 state "immersion" and "immersing" without proper definition or standard meaning in the art.

Claim 3 lacks antecedent basis for "the pole ends of the yoke".

Claim 4 does not appear to refer to the armature of claim 1 but appears to introduce another armature, which is not depicted nor discussed.

Claims 6 and 7 lack antecedent basis for "the yokes"

## Allowable Subject Matter

Claims 1-9 would possibly be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

#### **Prior Art**

Schneider, Esch et al, Schmitz et al, Chikamatsu et al, Steiger and Churchman disclose valves with dual electromagnet solenoids.

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Stolk et al discloses an electromagnetic actuator for an internal combustion engine that features many limitations of the instant invention claims.

Di Lieto et al and Carver disclose applications of opposed solenoids.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Neal Muir whose telephone number is 703/305-0247. The examiner can normally be reached daily.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Huson can be reached on 703/308-2580. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703/308-0975.

D. Neal`Mùir Examiner

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GREGORY HUSON SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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